

Building Custom Pipes:

1. Add product-filter.pipe.ts file under products folder. Include the PipeTranform implementation for custom pipe.

product-filter.pipe.ts

```
import { PipeTransform, Pipe } from 'angular2/core';
import { IProduct } from './product';

@Pipe({
  name: 'productFilter'
})
export class ProductFilterPipe implements PipeTransform {

  transform(value: IProduct[], args: string[]): IProduct[] {
    let filter: string = args[0] ? args[0].toLocaleLowerCase() : null;
    return filter ? value.filter((product: IProduct) =>
      product.productName.toLocaleLowerCase().indexOf(filter) !== -1) :
    value;
  }
}
```

2. Once PipeTrasform implementation is ready add this in you product-list.component.ts file as mentioned below:

product-list.component.ts

```
import { Component, OnInit } from 'angular2/core';
import { IProduct } from './product';
import { ProductFilterPipe } from './product-filter.pipe';
@Component({
  selector: 'pm-products',
  templateUrl: 'app/products/product-list.component.html',
  styleUrls: ['app/products/product-list.component.css'],
  pipes: [ProductFilterPipe]
})
export class ProductListComponent implements OnInit{
  pageTitle: string = 'Product List';
  imageWidth: number = 50;
  imageMargin: number = 2;
  showImage: boolean = false;
  listFilter: string = 'cart';
  products: IProduct[] = [
    {
      "productId": 2,
      "productName": "Garden Cart",
    }
  ]
}
```

```

        "productCode": "GDN-0023",
        "releaseDate": "March 18, 2016",
        "description": "15 gallon capacity rolling garden cart",
        "price": 32.99,
        "starRating": 4.2,
        "imageUrl": "https://encrypted-
tbn0.gstatic.com/images?q=tbn:ANd9GcRZhmstt7Kkdk5kyMv9mxJyh9sPUBvY9poTrxcl-
SCAUa3WmUVZQA"
    },
    {
        "productId": 5,
        "productName": "Hammer",
        "productCode": "TBX-0048",
        "releaseDate": "May 21, 2016",
        "description": "Curved claw steel hammer",
        "price": 8.9,
        "starRating": 4.8,
        "imageUrl": "https://encrypted-
tbn0.gstatic.com/images?q=tbn:ANd9GcSlXJd0iLq-d9v2-
UDfTlQFF3IuhdNMoe1ok1pAgwqubZaZqQJ9"
    }
];

toggleImage(): void{
    this.showImage = !this.showImage;
}

ngOnInit(): void{
    console.log('Init Invoked!')
}
}

```

3. Use the custom pipe which we have created in product-list.component.html file along with ngFor directives to filter products.

product-list.component.html

```

<div class='panel panel-primary'>
  <div class='panel-heading'>
    {{pageTitle}}
  </div>
  <div class='panel-body'>
    <div class='row'>
      <div class='col-md-2'>Filter by:</div>
      <div class='col-md-4'>

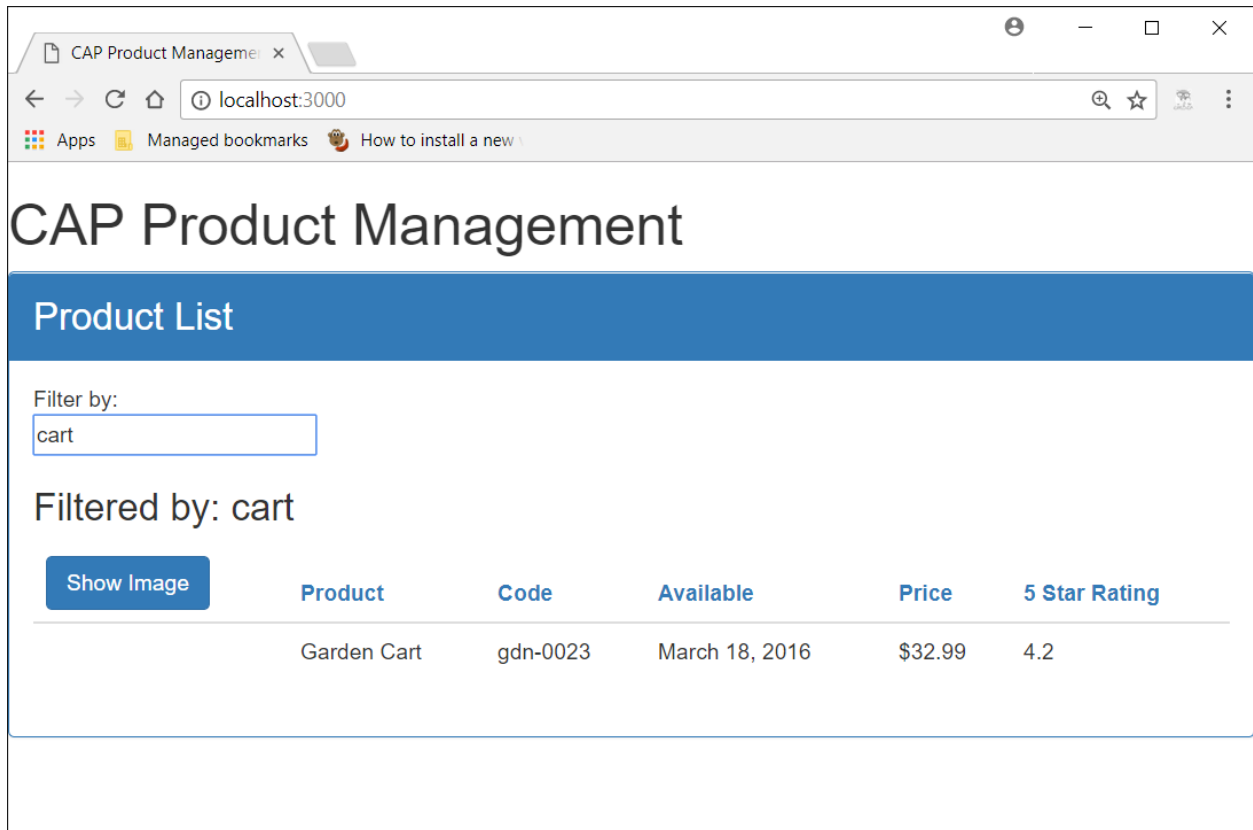
```

```

        <input type='text' [(ngModel)]='listFilter'/>
    </div>
</div>
<div class='row'>
    <div class='col-md-6'>
        <h3>Filtered by: {{listFilter}} </h3>
    </div>
</div>
<div class='table-responsive'>
    <table class='table' *ngIf='products && products.length'>
        <thead>
            <tr>
                <th>
                    <button class='btn btn-primary'
                        (click) = 'toggleImage()'>
                        {{showImage ? 'Hide' : 'Show'}} Image
                    </button>
                </th>
                <th>Product</th>
                <th>Code</th>
                <th>Available</th>
                <th>Price</th>
                <th>5 Star Rating</th>
            </tr>
        </thead>
        <tbody>
            <tr *ngFor='#product of products | productFilter:listFilter'>
                <td>
                    <img *ngIf='showImage'
                        [src]='product.imageUrl'
                        [title]='product.productName'
                        [style.width.px]='imageWidth'
                        [style.margin.px]='imageMargin'>
                </td>
                <td>{{product.productName}}</td>
                <td>{{product.productCode | lowercase }}</td>
                <td>{{product.releaseDate}}</td>
                <td>{{product.price | currency:'USD':true:'1.2-2'}}</td>
                <td>{{product.starRating}}</td>
            </tr>
        </tbody>
    </table>
</div>
</div>
</div>

```

Now you can check your browser



CAP Product Management

Product List

Filter by:

Filtered by: cart

Show Image

Product	Code	Available	Price	5 Star Rating
Garden Cart	gdn-0023	March 18, 2016	\$32.99	4.2

CAP Product Management

localhost:3000

AppsManaged bookmarksHow to install a new

CAP Product Management

Product List

Filter by:

am

Filtered by: am

Show Image

Product	Code	Available	Price	5 Star Rating
Hammer	tbx-0048	May 21, 2016	\$8.90	4.8